

SEQUENCE LISTING

<110> MERISTEM THERAPEUTICS

<120> SYNTHETIC AND CHIMERIC PROMOTERS, EXPRESSION CASSETTES,
PLASMIDS, VECTORS, TRANSGENIC PLANTS ET SEEDS INCLUDING
THEM AND PROCESSES FOR PRODUCING THE SAME

<130> PrHMMWG1

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<170> PatentIn Ver. 2.1

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gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240
tggcaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300
aaacctcacc gtgcacgcag ccatggtcct gaaccttcac ctcgtcctta taaaagccta 360
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gctaaacaaa cctcaccgtg cagcgagcca tggtcctgaa ccttcacctc gtccctataa 180
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 gtccaaaaat ctgtttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240
 tggcaaactg cgctttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300
 aaacctcacc gtgattgatg tgatatcaag attgatgtga tatctccact gacgtaaggg 360
 atgacgcaca cgcagccatg gtcctgaacc ttcacctcgt ccctataaaa gcctagccaa 420
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gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240
tggcaaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300
aaacctcacc gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc 360
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accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180
tgatatcaag attgatgtga tatctccact gacgtaaggg atgacgcaca cgcagccatg 240

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agccatgggc ctgaaccttc acctcgctcc tataaaagcc tagccaacct tcacaatctt 180
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gctaaacaaa cctcaccgtg attgatgtga tatctccact gacgtaaggg atgacgcaca 180
cgcagccatg gtcttgaacc ttcacctcgt ccctataaaa gcctagccaa ctttcacaat 240
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<222> (174)..(211)

<223> As2/As1 box

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accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180
tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga accttcacct 240
cgtccttata aaagcctagc caaccttcac aatcttatca tcaccacaaa caccgagcac 300

cacaaactag agatc

315

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<222> (39)..(61)

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<222> (120)..(123)

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<222> (137)..(140)

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<222> (72)..(79)

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<222> (177)..(183)

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<222> (211)..(218)

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ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca cacttctgca 180
aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat 240
ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg 300
cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc 360
gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga 420
accttcacct cgtccctata aaagcctagc caaccttcac aatcttatca tcaccacaa 480
caccgagcac cacaaactag agatc 505

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<211> 96

<212> DNA

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<221> misc_feature

<222> (58)

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atcacccaca acaccgagca ccacaaacta gagatc 96

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<223> G-like box

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<221> enhancer

<222> (40)..(77)

<223> Enhancer box

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<222> (119)..(125)

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<222> (149)

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tccttgctta tccagcttct tttgtgttgg ccatggctct gaaccttcac ctggtcccta 120
taaaagccta gccaaccttc acaatcttat catcaccac aacaccgagc accacaaact 180
agagatc 187

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<222> (66)..(103)

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<221> TATA_signal

<222> (222)..(228)

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<221> misc_feature

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ctgcgctttt ccaaccgatt ttgttcttct cgcgctttct tcttaggcta aacaaacctc 180
accgtgcacg cagccatggc cctgaacctt cacctcgtcc ctataaaagc ctagccaacc 240
ttcacaatct tatcatcacc cacaacaccg agcaccacaa actagagatc 290

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<222> (39)..(61)

<223> Cereal box

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<222> (87)..(94)

<223> G-like box

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<221> enhancer

<222> (119)..(156)

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<222> (240)..(277)

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<222> (313)..(319)

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<222> (343)

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tttgcaaagc tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct 180
tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtga 240
ttgatgtgat atctccactg acgtaaggga tgacgcacac gcagccatgg tcctgaacct 300
tcacctcgtc cctataaaag cctagccaac cttcacaatc ttatcatcac ccacaacacc 360
gagcaccaca aactagagat c 381

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Promoter

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<221> enhancer

<222> (119)..(156)

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<221> misc_feature

<222> (87)..(94)

<223> G-like box

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<221> TATA_signal

<222> (275)..(281)

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ggccgtagat ttgctctaga cgccgattac gtggcttttag cagactgtcc aaaaatctgt 120
tttgcaaagc tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct 180
tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtgc 240
acgcagccat ggtcctgaac cttcacctcg tccctataaa agcctagcca accttcacaa 300
tcttatcatc acccacaaca ccgagcacca caaactagag atc 343

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<212> DNA

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<222> (39) .. (76)

<223> Enhancer box

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<222> (134)..(171)

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<221> TATA_signal

<222> (290)..(296)

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<222> (320)

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tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180

ttggcaaact gcgcttttcc aaccgatttt gttcttctcg cgctttcttc ttaggctaaa 240

caaacctcac cgtgcacgca gccatgggtcc tgaaccttca cctcgtccct ataaaagcct 300

agccaacctt cacaatctta tcatcaccca caacaccgag caccacaaac tagagatc 358

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25

<210> 19

<211> 29

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<223> Description of Artificial
Sequence:Oligodesoxynucleotide

<400> 19

atcggaattc cgcagactgt ccaaaaatc

29

<210> 20

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<212> DNA

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Sequence:Oligodesoxynucleotide

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<210> 21

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Sequence:Oligodesoxynucleotide

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gttttgagtg gccgtagatt tgc

83

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<210> 25

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Sequence:Oligodesoxynucleotide

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<210> 26

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Sequence:Oligodesoxynucleotide

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agccatgggc ctgaaccttc 80

<210> 29

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<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 29

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33

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26

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<211> 27

<220>

<223> Description of Artificial

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<213> Artificial Sequence

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promoter

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<223> As2/As2/As1 box

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<222> (198)

<223> Transcription Initiation Site

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agggatgacg cacacgcagc catggctctg aaccttcacc tcgtccctat aaaagcctag 180
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<211> 299

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl134

<220>

<221> enhancer

<222> (20)..(57)

<223> Enhancer box

<220>

<221> misc_feature

<222> (141)..(195)

<223> As2/As2/As1 box

<220>

<221> misc_feature

<222> (261)

<223> Transcription Initiation Site

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tttgtgttgg caaactgcg c tttccaacc gattttgttc ttctgcgct ttcttcttag 120
gctaaacaaa cctcaccgtg attgatgtga tatcaagatt gatgtgatat ctccactgac 180
gtaagggatg acgcacacgc agccatggtc ctgaaccttc acctcgcccc tataaaagcc 240
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<211> 453

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<222> (40)..(77)

<223> Enhancer box

<220>

<221> misc_feature

<222> (102)..(109)

<223> G-like box

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<221> enhancer

<222> (134)..(171)

<223> Enhancer box

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<221> misc_feature

<222> (197)..(204)

<223> G-like box

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<221> enhancer

<222> (229)..(266)

<223> Enhancer box

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<221> TATA_signal

<222> (385)..(391)

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<220>

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<222> (415)

<223> Transcription Initiation Site

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tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180
ttggtctaga cgccgattac gtggcttttag cagactgtcc aaaaatctgt tttgcaaagc 240
tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct tttccaaccg 300
attttgttct tctcgcgctt tcttcttagg ctaaacaac ctcaccgtgc acgcagccat 360
ggctctgaac cttcacctcg tccctataaa agcctagcca accttcacaa tcttatcatc 420
accacaaca ccgagcacca caaactagag atc 453

119